

Abstract of the Invention

An economically viable process and system for centrally processing multiple loads of laundry with minimum environmental impact. A system and method of laundering whereby successive loads of laundry may be washed while continuously providing effective soil removal comprising at least partially recycled wash water from at least one previous wash cycle. The system and the method of using the same comprises filtering wash water with at least one filter to form wash retentate and wash permeate. The use of wash permeate in successive washes provides for reuse of chemicals and water recovery. A similar arrangement may be used with regard to the rinse water. Advantageously, one embodiment of the invention provides for the use of rinse retentate as make up water in the wash loop which increases water recovery and chemical recovery. Ultimately, the invention can reduce the production of gray water and recover chemicals used in the laundering process.